

FIG. 1

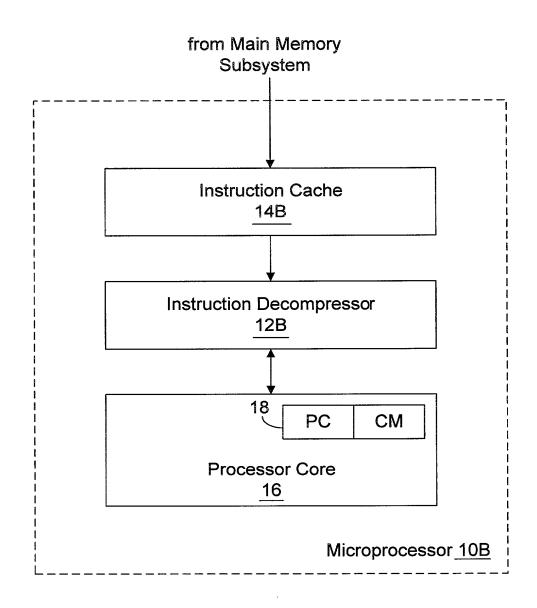
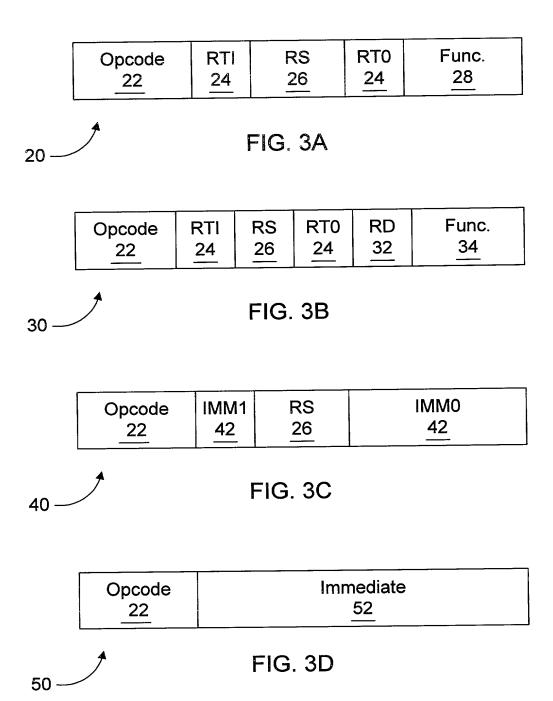


FIG. 2



	Exten 22	ıd	0 62	IMM1 64		BR 66	1	M2 64
60 –	FIG. 4A							
	Extend 22	IMM2 72	RT 74	IMM1 72	0	pcode 78	RS 76	IMM0 72
70 –	<b>)</b>			FIG. 4I	3			
	Extend 22	COP0 86	RT 74			pecial pcode <u>78</u>		Func. <u>84</u>
80 -	fig 4C							
	JAL Opcod		X 94	IMM2 <u>92</u>		IM1 92	IMM3 92	IMM0 <u>92</u>
00	<u> </u>		3	FIG. 4	D			

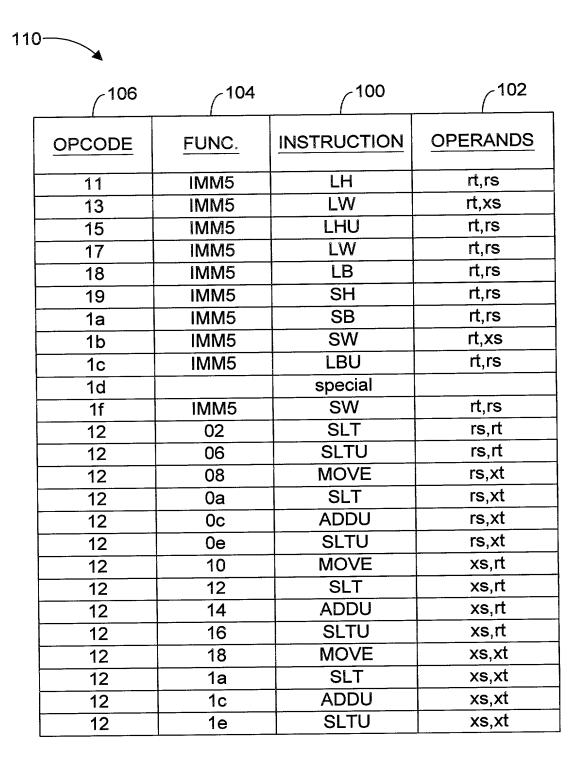


FIG. 5A

_106	(104		
OPCODE	FUNC.	INSTRUCTION	OPERANDS
10	02	SRL	rt,imm3
10	03	SRA	rt,imm3
10	04	SLLV	rt,rs
10	06	SRLV	rt,rs
10	07	SRAV	rt,rs
10	08	JR	rs
10	09	JALR	xt,rs
10	0с	SYSCALL	imm6
10	0d	BREAK	imm6
10	10	ADD	rs,rt
10	12	SUB	. rs,rt
10	13	NEG	rs,rt
10	14	AND	rs,rt
10	15	OR	rs,rt
10	16	XOR	rs,rt
10	17	NOT	rs,rt

FIG. 5B

114-

-102 100 -106 104 **OPERANDS** INSTRUCTION **OPCODE** FUNC. 01 **ADDU** r0,rs,rt 12 r0,rs,rt SUBU 03 12 r1,rs,rt ADDU 05 12 r1,rs,rt SUBU 07 12 r2,rs,rt 09 **ADDU** 12 r2,rs,rt SUBU 12 0b r3,rs,rt ADDU 0d 12 r3,rs,rt SUBU Of 12 r4,rs,rt ADDU 12 11 r4,rs,rt SUBU 12 13 r5,rs,rt **ADDU** 15 12 r5,rs,rt SUBU 12 17 r6,rs,rt ADDU 19 12 r6,rs,rt SUBU 1b 12 r7,rs,rt 1d **ADDU** 12 r7,rs,rt SUBU 1f 12 rd,rt,imm SLL 16 imm

FIG. 5C

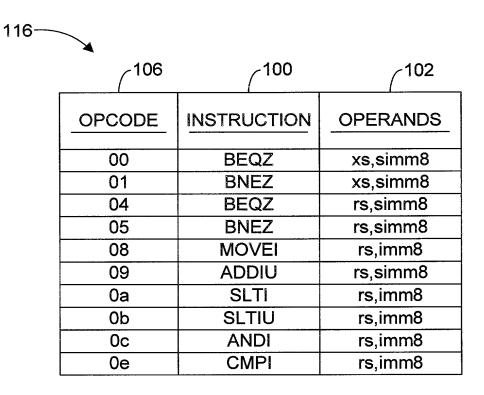


FIG. 5D

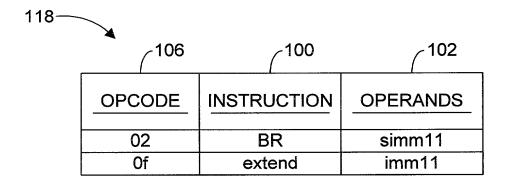


FIG. 5E

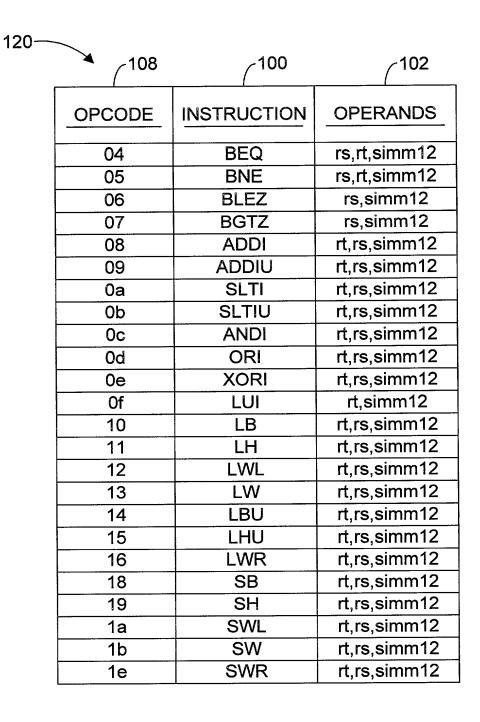


FIG. 6A

122			
	100		
RT	INSTRUCTION	OPERANDS	
00	BLTZ	rs,simm12	
01	BGEZ	rs,simm12	
02	BLTZL	rs,simm12	
03	BGEZL	rs,simm12	
08	TGEI	rs,simm12	
09	TGEIU	rs,simm12	
0a	TLTI	rs,simm12	
0b	TLTIU	rs,simm12	
0c	TEQI	rs,simm12	
0e	TNEI	rs,simm12	
10	BLTZAL	rs,simm12	
11	BGEZAL	rs,simm12	
12	BLTZALL	rs,simm12	
13	BGEZALL	rs,simm12	

FIG. 6B

124-

<sub>~</sub>100 102 <sub>107</sub> **OPERANDS** FUNC. INSTRUCTION SLL rd,rt,imm5 00 SRL 02 rd,rt,imm5 03 SRA rd,rt,imm5 04 SLLV rd,rt,rs 06 SRLV rd,rt,rs 07 SRAV rd,rt,rs JR 80 rs 09 **JALR** rd,rs imm15 SYSCALL 0c BREAK imm15 0d SYNC Of 10 MFHI rd 11 MTHI rs 12 **MFLO** rd 13 MTLO rs MULT 18 rs,rt MULTU 19 rs,rt, DIV rs,rt 1a DIVU 1b rs,rt

FIG. 6C

107 100 102

FUNC. INSTRUCTION OPERANDS

The second of the

FUNC.	INSTRUCTION	OPERANDS	
20	ADD	rd,rs,rt	
21	ADDU	rd,rs,rt	
22	SUB	rd,rs,rt	
23	SUBU	rd,rs,rt	
24	AND	rd,rs,rt	
25	OR	rd,rs,rt	
26	XOR	rd,rs,rt	
27	NOR	rd,rs,rt	
2a	SLT	rd,rs,rt	
2b	SLTU	rd,rs,rt	
30	TGE	rs,rt	
31	TGEU	rs,rt	
32	TLT	rs,rt	
33	TLTU	rs,rt	
34	TEQ	rs,rt	
36	TNE	rs,rt	

FIG. 6D

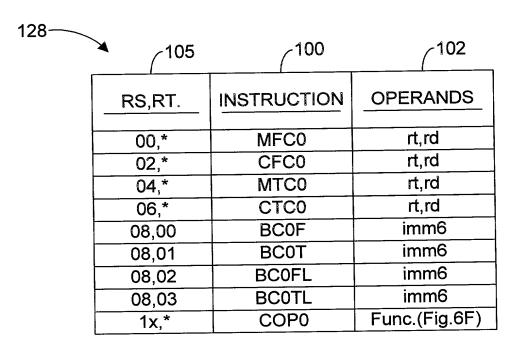


FIG. 6E

130	(107	100
	FUNC.	INSTRUCTION
	01	TLBR
	02	TLBWI
	06	TLBWR
	08	TLBP
	10	RFE
	18	ERET

FIG. 6F

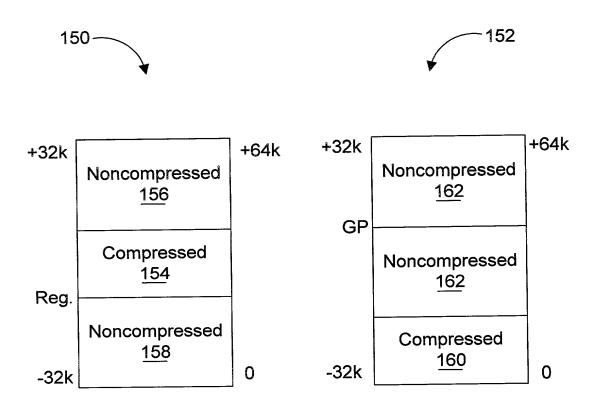


FIG. 7

## from Instruction Cache 14B

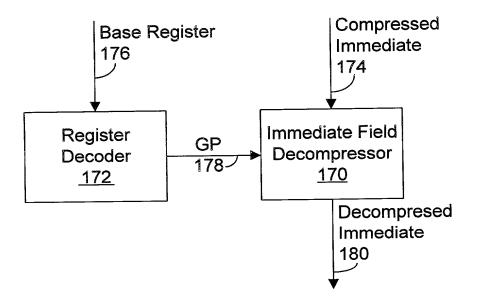


FIG. 8

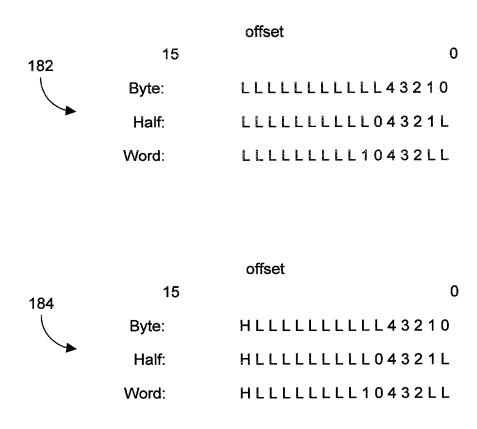


FIG. 9

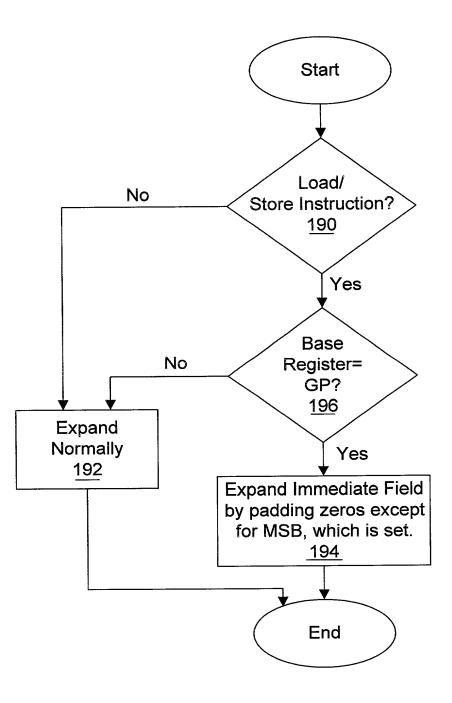


FIG. 10

## from Instruction Cache 14B

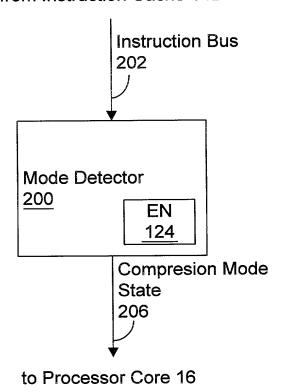


FIG. 11

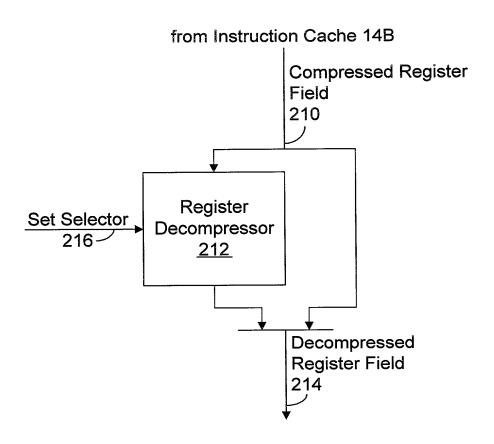


FIG. 12

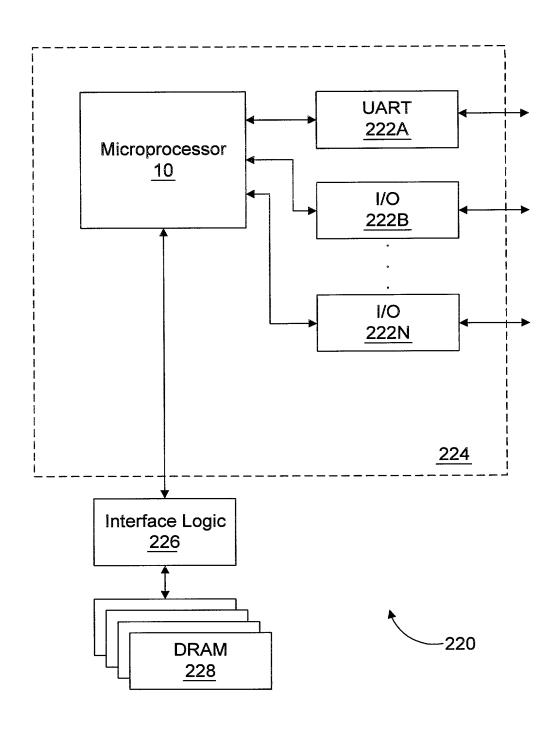


FIG. 13